

What is claimed is:

1. An antivibration device between a motor unit including an internal combustion engine and a vibration-insulated unit of a portable handheld work apparatus including a motor-driven chain saw, cutoff machine, suction/blower apparatus or the like, the  
5 antivibration device comprising: a vibration damper interposed between said units and said vibration damper being made of a foamed elastic material.
2. The antivibration device of claim 1, wherein said foamed elastic material is a polyurethane foam.
3. The antivibration device of claim 2, wherein said elastic material is microporous and foamed with a pore size which is less than 0.2 mm.
4. The antivibration device of claim 2, wherein said elastic material is microporous and foamed with a pore size which is less than 0.1 mm.
5. The antivibration device of claim 1, wherein said foamed elastic material has pores and said pores constitute a volume portion in a range approximately from 50% to 65% of the total volume.
6. The antivibration device of claim 1, wherein said foamed elastic material has a specific weight lying in the range of 350 kg/m<sup>3</sup> to 650 kg/m<sup>3</sup>.

7. The antivibration device of claim 1, further comprising a sleeve surrounding said vibration damper so as to hinder a transverse expansion of said vibration damper.

8. The antivibration device of claim 1, said vibration damper having a peripheral surface and including a plurality of radially projecting ribs formed on said peripheral surface and said ribs being made of said foamed elastic material; said ribs having peripheral surfaces; and, said antivibration device further including means for holding said vibration damper at said peripheral surfaces of said ribs when said vibration damper is in the built-in state so as to leave an intermediate space between each two mutually adjacent ones of said ribs.

9. The antivibration device of claim 1, wherein one of said motor unit and said vibration-insulated unit has a lug; said vibration damper has an opening for accommodating said lug therein; and, said lug has a latch nose for axially securing said vibration damper.

10. The antivibration device of claim 1, wherein said motor unit, said vibration-insulated unit and said antivibration device conjointly define a vibratory system having a resonance frequency ( $f_R$ ) which lies below the lower limit ( $f_1$ ) of a frequency range ( $f_B$ ) to be damped.

11. The antivibration device of claim 10, wherein the  $\sqrt{2}$ -multiple of said resonance frequency ( $f_R$ ) lies below said lower limit ( $f_1$ ) of said frequency range ( $f_B$ ) to be damped.

12. The antivibration device of claim 10, wherein said lower limit ( $f_1$ ) of said frequency range ( $f_B$ ) to be damped is defined by the idle rpm of said internal combustion engine.

13. The antivibration device of claim 1, wherein said vibration-insulated unit is a handle unit connected to said motor unit via said antivibration device.

14. The antivibration device of claim 1, further comprising a metal spring in addition to said vibration damper made of foamed elastic material.

15. The antivibration device of claim 14, said metal spring being made of steel.

16. The antivibration device of claim 14, wherein said vibration damper and said metal spring are connected in parallel.

17. The antivibration device of claim 14, wherein said vibration damper is built in so as to be pretensioned.

18. The antivibration device of claim 14, wherein said vibration damper is pretensioned by a pretension force of said metal spring.

19. The antivibration device of claim 14, wherein said metal spring is configured as a helical spring defining a longitudinal axis; and, said vibration damper is mounted approximately coaxial to said helical spring.

20. The antivibration device of claim 14, further comprising a pivot joint for pivotally connecting said metal spring to one of said motor unit and said vibration-insulated unit.

21. The antivibration device of claim 14, further comprising first and second pivot joints for connecting said metal spring to said motor unit and said vibration-insulated unit, respectively.

22. The antivibration device of claim 19, further comprising a threaded lug for engaging the coil of said helical spring for holding said helical spring at at least one of the ends thereof.

23. The antivibration device of claim 13, further comprising a metal spring in addition to said vibration damper made of foamed elastic material; said handle unit having first and second sides; said metal spring being mounted at said first side and said vibration damper being mounted on said second side.

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